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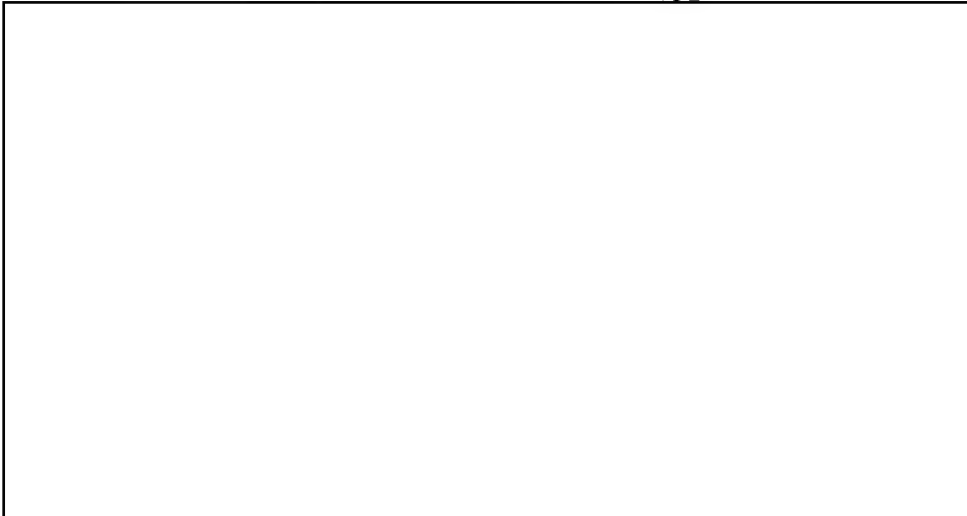
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MAJOR STATE-OPERATED ELECTRONICS PLANTS
IN COMMUNIST CHINA

Subcommittee on Electronics
and Telecommunications

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FOREWORD

This Research Aid is made up of series of working-indexes of major state-operated Electronics Plants in Communist China. It was compiled for the following reasons:

1. To provide a ready reference to major Chinese electronics plant and to their principle products.
2. To make as simple as possible the often difficult task of relating a given piece of plant information to a specific plant.
3. To provide a basis for future studies of the Chinese Communist electronics industry.

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In addition, plants are

also indexed by type of equipment produced.

A variety of minor plants and workshops have been excluded from this study. Among these are production plants and workshops attached to provincial or local posts and telecommunications bureaus, workshops and laboratories attached to schools and universities, and cottage-type production shops. Although little firm information exists on the output of these latter production facilities, actual output is believed to be small. While such facilities may play an important part in producing simple equipment for local use, the main burden of producing electronic equipment in Communist China rests with the major plants listed in this research aid.

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Major State Operated Electronics Plants
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Communist China

	In Opera- tion	Products and Output	Other Data	Ministry
	1958	Type 58 Walkie Talkie.		
			25X1	
	1951	Switchboards. Carrier frequency telecommunications equipment.		Posts and Tele-communications
		Light bulbs and possibly other products involving vacuum technology, such as electron tubes.		First Machine, 10th Bureau
	1958	Radio components, except tubes. Possibly contains a section for production of military equipment.		First Machine, 10th Bureau

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* Designed by State Union Planning Institute, USSR.

Major State Operated Electronics Plants

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Communist China (continued)

In
Opera-
tion

Products and Output

Other Data

Ministry

Plant had 2,400,000 yuan worth
of regular stock for supply of
various plants in October 1959.

Plant, both producers of radio
parts.
Soviet specialists assisted
Chinese technicians in pro-
duction techniques at plant.
Included in plant equipment are
over 60 automatic punch presses
capable of punching 70 outer
cases for condensers per minute.

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Jun
1958

First Machine,
10th Bureau

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Major State Operated Electronics Plants

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Communist China (continued)

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	In Opera- tion	Products and Output	Other Data	Ministry
			Plant area: 500 x 900 meters.	
				25X1
	1959	Possibly airborne electronics.		First Machine, 10th Bureau
	1960		Soviet aid.	First Machine, 10th Bureau
			25X1	
	1959	Electron tubes, germanium diodes.		

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	In Opera- tion	Products and Output	Other Data	Ministry	
	1959			First Machine, 10th Bureau	25X1
		Plant area: 1,000 x 1,800 meters.			25X1
	1958	Radiotechnical insulators.	Employees trained at a Dairen insulator plant.	First Machine, 10th Bureau	
	1953	Radio receivers, electronic test equipment. Possibly military communications equip- ment.			25X1

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Communist China (continued)

<u>In Opera- tion</u>	<u>Products and Output</u>	<u>Other Data</u>	<u>Ministry</u>
	Telecommunications equipment. <div>25X1</div>		Posts and Tele- communications
1958	Electron Tubes. Lamps.		
1960	Wire broadcasting equipment (50-1,000 watts), medium and short wave broadcasting equip- ment, TV broadcasting and industrial equipment.		

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	In Opera- tion	Products and Output	Other Data	Ministry
		Wire telecommunications equip- ment.		25X1
	1957	Radio receivers. Trial manu- factured a digital computer. Radio receivers include Shanghai brand 6 and 7 tube receivers. Amplifiers, charging equipment.		First Machine, 10th Bureau
		Radio and TV receivers, radio broadcasting equipment.		First Machine, 10th Bureau

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Communist China (continued)

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	In Opera- tion	Products and Output	Other Data	Ministry
		Electron Tubes.	Soviet aid.	First Machine, 10th Bureau
		Radio parts plant.	A modern, comprehensive plant, according to the Chinese press.	First Machine, 10th Bureau
1958		Radio and TV receivers, tape recorders, loudspeakers, wired broadcast transmitting equipment. Production rate second half of 1958: 1,200,000 loudspeakers 3,450 wired broadcast trans- mitting sets.	Factory site: 20,000 sq. meters. Floor space: 3,600 sq. meters.	

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Communist China (continued)

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<u>In Opera- tion</u>	<u>Products and Output</u>	<u>Other Data</u>	<u>Ministry</u>
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1959 Possibly aircraft electronic
equipment and gun laying radar.

First Machine,
10th Bureau

Probably wire communications
equipment and switchboards.

First Machine,
10th Bureau

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Communist China (continued)

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	In Opera- tion	Products and Output	Other Data	Ministry
		Possibly gun-laying radar and aircraft electronic equipment.		First Machine, 10th Bureau 25X1
		Possibly radar.	Under construction as of November 1959.	First Machine, 10th Bureau
	1959	Rotary switches, probably other radio parts.		First Machine, 10th Bureau 25X1
	1951	Lamps. Possibly electron tubes.		

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<u>In Opera- tion</u>	<u>Products and Output</u>	<u>Other Data</u>	<u>Ministry</u>
1953	Radio receivers. Radio broad- casting equipment.	Newly built in 1953.	25X1
1951			First Machine, 10th Bureau
		Floor space: 5,000 sq. meters three stories (August 1957).	
	Radio receiver production 25X1 1958: 200,000 sets.	25X1D1A	
1958	Possibly the Volga early warning radar, PARKS trans- ceivers and RBS series commu- nications sets.		First Machine, 10th Bureau

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 Communist China (continued)

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	In Opera- tion	Products and Output	Other Data	Ministry
			specializes in frequency tech- niques and certain pulse tech- niques including radar. Naval radar. Senior	25X1
		Wire communications equipment including telephones, switch- boards, carrier-frequency equipment.	Received Soviet aid.	First Machine, 10th Bureau

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 Communist China (continued)

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	In pera- tion	Products and Output	Other Data	Ministry
	1951	Electron tubes, semiconductor devices. Estimated tube output: 1957: 3,300,000 units 1958: 2,900,000 units 1959: 2,200,000 units 1960: 5,000,000 units Will produce TG11-325/16 thyratrons.	Plant intends to further increase capacity by installing additional equipment from Hungary in 1960.	First Machine, 10th Bureau 25X1
	1958	Airborne intercept radar. Also item called OKM. Aircraft electronics.		First Machine, 10th Bureau 25X1

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	In Opera- tion	Products and Output	Other Data	Ministry
		Radiotechnical quartz.		
	1956	Radio Components	<div></div> Number of employees: 8,000.	25X1 First Machine 10th Bureau
		According to reports, annual planned output to be: resistors: 10,300,000 electrolytic capacitors: 5,000,000 paper capacitors: 4,928,000.		
	1957	Automatic switchboards and other wire communications equipment.	<div></div>	First Machine, 10th Bureau 25X1

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	In Opera- tion	Products and Output	Other Data	Ministry
	1956	<p>Tubes, semiconductor devices, tungsten wire.</p> <p>Reported tube output 1956: 60,000 units</p> <p>Estimated tube output 1957: 5,000,000 units</p> <p>Estimated output 1960: 30,000,000 units.</p>	<p>Built with Soviet aid. Production supervised by Soviet personnel.</p> <p>In 1960 this plant furnished manufacturing equipment to the</p> <p>Number of employees: 6,200</p> <p>Factory covers an area of 320,000 square meters. Buildings are two stories high.</p>	<p>First Machine, 10th Bureau</p> <p>25X1</p>

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	In Opera- tion	Products and Output	Other Data	Ministry
	1951	Radio receivers. Radio broad- cast and TV transmitting equip- ment. Radio communications transmitters.		First Machine, 10th Bureau
				Posts and Tele- communications
	25X1			
		Facsimile equipment.		First Machine, 10th Bureau
		Telephone, telephone exchange equipment, facsimile equipment.		First Machine, 10th Bureau

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	In Opera- tion	Products and Output	25X1D1A	Ministry
			Other Data	
	1959	Electron tubes. Production target 1960: 2,000,000 units.		25X1
		Tubes. Semiconductor devices. Plan for germanium diodes: 1.5 million units a year.	Soviet aid. Construction office set up in 1958. Planning still underway in 1959.	First Machine, 10th Bureau
		Radio and TV receivers, Wired broadcast equipment and loudspeakers. Aircraft		25X1 First Machine, 10th Bureau

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	In Opera- tion	Products and Output	Other Data	Ministry
		communications equipment. Possibly duotriodes. Capacitors.	Number of employees 1958: 1,300 1960: 3,000	
		Estimated output radio receivers 1959: 250,000 units.		
		Type 5303 telephone transmitters.		Ministry of Rail- roads.
		Radio communications transmit- ters and receivers, carrier frequency telecommunications equipment, telegraph trans- mitters, teleprinters, elec- tronic test equipment. Silicon diodes.	Labor force 1957: 600	Posts and Tele- communications
		Annual production rate for teleprinters 1958: 400-500 units.		

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	In Opera- tion	Products and Output	Other Data	Ministry
[Redacted]		Light bulbs, electron tubes, tungsten filaments, ISSH-type insulators.	Received aid from Hungary in 1957-58, including both bulb and tube making equipment.	First Machine 10th Bureau
		Annual light bulb production approximately 10,000,000 units. Estimated tube capacity 1960: 2,500,000.	Labor force 1958: 1,200	
			25X1	
		Radio spare parts, semiconductors, remote control instruments, radio receivers.	Production under direction of [Redacted] Semiconductor department built in 1958; by 1960 semiconductor current regulator strips were in production.	25X1
			Labor force 1960: 600.	
		Aircraft electronic equipment Gun laying radar. Uses optical items in production.	[Redacted]	First Machine; 10th Bureau
		[Redacted]	[Redacted]	25X1
		25X1D1A		

25X1

[Redacted]

Communist China (continued)

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	In Opera- tion	Products and Output	Other Data	Ministry
			Soviet aided plant.	10th Bureau
	1960	Electronic anti-aircraft fire control equipment		

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	In Opera- tion	Products and Output	Other Data	Ministry
		Communications transmitters and receivers. TV equipment. TV receivers.		25X1 First Machine, 10th Bureau
	1960		Number of employees: 2,500 (1958)	
	1950	Telephone equipment including carrier frequency telecommuni- cations equipment.	Number of employees: 1,000 (1956)	Posts and Tele- communications

25X1

Communist China (continued)

25X1

25X1



In Opera- tion	Products and Output	Other Data	Ministry
	Radio broadcast transmitting equipment, amplifiers, high frequency heating equipment.		First Machine, 10th Bureau
	Ultrasonic flaw detectors.		First Machine, 10th Bureau
	Carrier frequency equipment. 1959 capacity for 3-channel carrier equipment: 500 units.		

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